Tune up procedure

The output power setting of EUT is set in the factory and followed the max average level in below. There is no tune up procedure except factory default setting.

RF average conduct power range：

► 1.1 GSM850

Output power of range:

GSM:32dBm±1dBm

GPRS (GMSK):

1TXslot:32.0dBm±1.0dBm

2TXslot:31.0dBm±1.0dBm

3TXslot:29.0dBm±1.0dBm

4TXslot:27.0dBm±1.0dBm

EGPRS(8PSK):

1TXslot:26.0dBm±1.0dBm

2TXslot:26.0dBm±1.0dBm

3TXslot:25.0dBm±1.0dBm

4TXslot:22.0dBm±1.0dBm

►1.2 GSM1900

Output power of range:

GSM: 30dBm±1.0dBm

GPRS(GMSK):

1TXslot:30.0dBm±1.0dBm

2TXslot:27.0dBm±1.0dBm

3TXslot:25.0dBm±1.0dBm

4TXslot:23.5dBm±1.0dBm

EGPRS(8PSK):

1TXslot:25.0dBm±1.0dBm

2TXslot:25.0dBm±1.0dBm

3TXslot:24.5dBm±1.0dBm

4TXslot:22.5dBm±1.0dBm

►1.3 WCDMA850:

Output power of range:

WCDMA: 24.0±1.0dBm

HSDPA: 22.5±1.0dBm

HSUPA: 21.5±1.0dBm

►1.4 WCDMA1700:

Output power of range:

WCDMA: 22.5±1.0dBm

HSDPA: 22.0±1.0dBm

HSUPA:　21.5±1.5dBm

►1.5 WCDMA1900:

Output power of range:

WCDMA: 23.5±1.0dBm

HSDPA:　23.5±1.0dBm

HSUPA:　21.5±1.0dBm

►1.6 LTE Band 2:

Output power of range:

1.4M:QPSK: 1RB:22.0±1.0dBm

3%RB: 22.0±1.0dBm

6%RB: 21.5±1.5dBm

16-QAM: 1RB:22.0±1.0dBm

3%RB: 22.0±1.0dBm

6%RB: 21.5±1.5dBm

3M:QPSK:1RB: 22.0±1.0dBm

7%RB: 21.0±1.0dBm

15%RB: 21.0±1.0dBm

16-QAM: 1RB:21.0±1.0dBm

7%RB: 21.0±1.0dBm

15%RB: 21.0±1.0dBm

5M: QPSK:1RB: 22.0±1.0dBm

12%RB: 21.0±1.0dBm

25%RB: 21.5±1.0dBm

16-QAM: 1RB:20.0±1.0dBm

12%RB: 21.0±1.0dBm

25%RB: 20.0±1.0dBm

10M: QPSK:1RB: 22.0±1.0dBm

25%RB: 21.0±1.0dBm

50%RB: 21.0±1.0dBm

16-QAM: 1RB:21.0±1.0dBm

25%RB: 21.0±1.0dBm

50%RB: 20.0±1.0dBm

15M: QPSK:1RB: 22.0±1.0dBm

36%RB: 21.0±1.0dBm

75%RB: 21.0±1.0dBm

16-QAM: 1RB:21.0±1.0dBm

36%RB: 21.0±1.0dBm

75%RB: 20.0±1.0dBm

20M: QPSK:1RB: 22.0±1.0dBm

50%RB: 21.0±1.0dBm

100%RB: 21.0±1.0dBm

16-QAM: 1RB:21.0±1.0dBm

50%RB: 21.0±1.0dBm

100%RB: 20.0±1.0dBm

►1.8 LTE Band 4:

Output power of range:

1.4M:QPSK: 1RB:23.0±1.0dBm

3%RB: 23.0±1.0dBm

6%RB: 21.5±1.0dBm

16-QAM: 1RB:23.0±1.0dBm

3%RB: 23.0±1.0dBm

6%RB: 21.5±1.0dBm

3M:QPSK:1RB: 23.0±1.0dBm

7%RB: 22.0±1.0dBm

15%RB: 21.5±1.0dBm

16-QAM: 1RB:22.0±1.0dBm

7%RB: 22.0±1.0dBm

15%RB: 21.0±1.0dBm

5M: QPSK:1RB: 23.0±1.0dBm

12%RB: 22±1.0dBm

25%RB: 21.5±1.0dBm

16-QAM: 1RB:21.0±1.0dBm

12%RB: 22.0±1.0dBm

25%RB: 21.0±1.0dBm

10M: QPSK:1RB: 23.0±1.0dBm

25%RB: 22.0±1.0dBm

50%RB: 21.5±1.0dBm

16-QAM: 1RB:22.0±1.0dBm

25%RB: 22.0±1.0dBm

50%RB: 21.0±1.0dBm

15M: QPSK:1RB: 23.0±1.0dBm

36%RB: 22.0±1.0dBm

75%RB: 21.5±1.0dBm

16-QAM: 1RB:22.0±1.0dBm

36%RB: 22.0±1.0dBm

75%RB: 21.0±1.0dBm

20M: QPSK:1RB: 23.0 ±1.0dBm

50%RB: 22.0±1.0dBm

100%RB: 21.5±1.0dBm

16-QAM: 1RB:22±1.0dBm

50%RB: 22±1.0dBm

100%RB: 21.0±1.0dBm

►1.9 LTE Band 5:

Output power of range:

1.4M:QPSK: 1RB:23.0±1.0dBm

3%RB: 23.0±1.0dBm

6%RB: 21.5±1.0dBm

16-QAM: 1RB:23.0±1.0dBm

3%RB: 23.0±1.0dBm

6%RB: 21.5±1.0dBm

3M:QPSK:1RB: 23.0±1.0dBm

7%RB: 22.0±1.0dBm

15%RB: 22.0±1.0dBm

16-QAM: 1RB:22.0±1.0dBm

7%RB: 22.0±1.0dBm

15%RB: 21.0±1.0dBm

5M: QPSK:1RB: 23.0±1.0dBm

12%RB: 22±1.0dBm

25%RB: 21.5±1.0dBm

16-QAM: 1RB:21.0±1.0dBm

12%RB: 22.0±1.0dBm

25%RB: 21.0±1.0dBm

10M: QPSK:1RB: 23.0±1.0dBm

25%RB: 22.0±1.0dBm

50%RB: 21.5±1.0dBm

16-QAM: 1RB:22.0±1.0dBm

25%RB: 22.0±1.0dBm

50%RB: 21.0±1.0dBm

►2.0 LTE Band 7:

Output power of range:

5M: QPSK:1RB: 23.0±1.0dBm

12%RB: 22.0±1.0dBm

25%RB: 22.0±1.0dBm

16-QAM: 1RB:22.0±1.0dBm

12%RB: 22.0±1.0dBm

25%RB: 21.0±1.0dBm

10M: QPSK:1RB: 22.0±1.0dBm

25%RB: 22.0±1.0dBm

50%RB: 21.0±1.0dBm

16-QAM: 1RB:22.0±1.0dBm

25%RB: 22.0±1.0dBm

50%RB: 21.0±1.0dBm

15M: QPSK:1RB: 22.0±1.0dBm

36%RB: 22±1.0dBm

75%RB: 21.0±1.0dBm

16-QAM: 1RB:22.0±1.0dBm

36%RB: 22.0±1.0dBm

75%RB: 21.0±1.0dBm

20M: QPSK:1RB: 23.0±1.0dBm

50%RB: 22.0±1.0dBm

100%RB: 21.0±1.0dBm

16-QAM: 1RB:22.0±1.0dBm

50%RB: 22.0±1.0dBm

100%RB: 21.0±1.0dBm

►2.1 LTE Band 12:

Output power of range:

1.4M:QPSK: 1RB:23.0±1.0dBm

3%RB: 23.0±1.0dBm

6%RB: 22.0±1.0dBm

16-QAM: 1RB:23.0±1.0dBm

3%RB: 22.0±1.0dBm

6%RB: 21.0±1.0dBm

3M:QPSK:1RB: 22.0±1.0dBm

7%RB: 22.0±1.0dBm

15%RB: 22.0±1.0dBm

16-QAM: 1RB:22.0±1.0dBm

7%RB: 22.0±1.0dBm

15%RB: 21.0±1.0dBm

5M: QPSK:1RB: 22.0±1.0dBm

12%RB: 22.0±1.0dBm

25%RB: 22.0±1.0dBm

16-QAM: 1RB:22.0±1.0dBm

12%RB: 21.0±1.0dBm

25%RB: 21.0±1.0dBm

10M: QPSK:1RB: 22.0±1.0dBm

25%RB: 22.0±1.0dBm

50%RB: 22.0±1.0dBm

16-QAM: 1RB:22.0±1.0dBm

25%RB: 21.0±1.0dBm

50%RB: 21.0±1.0dBm

►2.2 LTE Band 13:

Output power of range:

5M:QPSK: 1RB:23.0±1.0dBm

12%RB: 22.0±1.0dBm

25%RB: 22.0±1.0dBm

16-QAM: 1RB:21.0±1.0dBm

12%RB: 22.0±1.0dBm

25%RB: 21.0±1.0dBm

10M:QPSK:1RB: 23.0±1.0dBm

25%RB: 22.0±1.0dBm

50%RB: 22.0±1.0dBm

16-QAM: 1RB:22.0±1.0dBm

25%RB: 22.0±1.0dBm

50%RB: 21.0±1.0dBm

►2.3 LTE Band 17:

Output power of range:

5M: QPSK:1RB: 23.0±1.0dBm

12%RB: 22±1.0dBm

25%RB: 22.0±1.0dBm

16-QAM: 1RB:22.0±1.0dBm

12%RB: 22.0±1.0dBm

25%RB: 21.0±1.0dBm

10M: QPSK:1RB: 23.0±1.0dBm

25%RB: 22.0±1.0dBm

50%RB: 22.0±1.0dBm

16-QAM: 1RB:23.0±1.0dBm

25%RB: 21.0±1.0dBm

50%RB: 21.0±1.0dBm

►2.4 LTE Band 26:

Output power of range:

1.4M:QPSK: 1RB:20.0±1.0dBm

3%RB: 19.0±1.0dBm

6%RB: 21.0±1.0dBm

16-QAM: 1RB:17.0±1.0dBm

3%RB: 19.0±1.0dBm

6%RB: 21.0±1.0dBm

3M:QPSK:1RB: 16.0±1.0dBm

7%RB: 17.0±1.0dBm

15%RB: 21.0±1.0dBm

16-QAM: 1RB:17.0±1.0dBm

7%RB: 17.0±1.0dBm

15%RB: 20.0±1.0dBm

5M: QPSK:1RB: 20.0±1.0dBm

12%RB: 21.0±1.0dBm

25%RB: 21.0±1.0dBm

16-QAM: 1RB:17.0±1.0dBm

12%RB: 21.0±1.0dBm

25%RB: 20.0±1.0dBm

10M: QPSK:1RB: 19.0±1.0dBm

25%RB: 21.0±1.0dBm

50%RB: 21.0±1.0dBm

16-QAM: 1RB:17.0±1.0dBm

25%RB: 21.0±1.0dBm

50%RB: 20.0±1.0dBm

►2.5 LTE Band 38:

Output power of range:

5M:QPSK: 1RB:23.0±1.0dBm

12%RB: 22.0±1.0dBm

25%RB: 22.0±1.0dBm

16-QAM: 1RB:22.0±1.0dBm

12%RB: 22.0±1.0dBm

25%RB: 22.0±1.0dBm

10M:QPSK:1RB: 23.0±1.0dBm

25%RB: 22.0±1.0dBm

50%RB: 22.0±1.0dBm

16-QAM: 1RB:22.0±1.0dBm

25%RB: 22.0±1.0dBm

50%RB: 21.0±1.0dBm

15M: QPSK:1RB: 23.0±1.0dBm

36%RB: 22.0±1.0dBm

75%RB: 22.0±1.0dBm

16-QAM: 1RB:22.0±1.0dBm

36%RB: 22.0±1.0dBm

75%RB: 21.0±1.0dBm

20M: QPSK:1RB: 23.0±1.0dBm

50%RB: 22.0±1.0dBm

100%RB: 22.0±1.0dBm

16-QAM: 1RB:23.0±1.0dBm

50%RB: 22.0±1.0dBm

100%RB: 22.0±1.0dBm

►2.6 LTE Band 40:

Output power of range:

5M:QPSK: 1RB:21.0±1.0dBm

12%RB: 20.0±1.0dBm

25%RB: 20.0±1.0dBm

16-QAM: 1RB:21.0±1.0dBm

12%RB: 20.0±1.0dBm

25%RB: 20.0±1.0dBm

10M:QPSK:1RB: 21.0±1.0dBm

25%RB: 20.0±1.0dBm

50%RB: 20.0±1.0dBm

16-QAM: 1RB:21.0±1.0dBm

25%RB: 20.0±1.0dBm

50%RB: 20.0±1.0dBm

►2.7 LTE Band 41:

Output power of range:

5M:QPSK: 1RB:23.0±1.0dBm

12%RB: 22.0±1.0dBm

25%RB: 22.0±1.0dBm

16-QAM: 1RB:23.0±1.0dBm

12%RB: 22.0±1.0dBm

25%RB: 22.0±1.0dBm

10M:QPSK:1RB: 23.0±1.0dBm

25%RB: 22.0±1.0dBm

50%RB: 22.0±1.0dBm

16-QAM: 1RB:23.0±1.0dBm

25%RB: 22.0±1.0dBm

50%RB: 22.0±1.0dBm

15M: QPSK:1RB: 23.0±1.0dBm

36%RB: 22.0±1.0dBm

75%RB: 22.0±1.0dBm

16-QAM: 1RB:23.0±1.0dBm

36%RB: 22.0±1.0dBm

75%RB: 22.0±1.0dBm

20M: QPSK:1RB: 23.0±1.0dBm

50%RB: 22.0±1.0dBm

100%RB: 22.0±1.0dBm

16-QAM: 1RB:23.0±1.0dBm

50%RB: 22.0±1.0dBm

100%RB: 22.0±1.0dBm

►2.8 WIFI:

△ For 802.11b:

Power=12.5dBm±2.0dBm

△For 802.11g:

Power=12.5dBm±2.0dBm

△For 802.11n(20M):

Power=12.5dBm±2.0dBm

►2.9 BT：

Power ≤ 5.0dBm

By:  ***ZHU TAN***

Signature ***Printed***

Title: ***Certification Manager***

On behalf of : HONGKONG UCLOUDLINK NETWORK TECHNOLOGY LIMITED